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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,528	11/03/2003	Hiroshi Ito	03560.003388	1404

5514 7590 08/04/2004

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NEW YORK, NY 10112

EXAMINER

WELLS, NIKITA

ART UNIT	PAPER NUMBER
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2881

DATE MAILED: 08/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<p align="center">Office Action Summary</p>	<p>Application No.</p> <p align="center">10/698,528</p>	<p>Applicant(s)</p> <p align="center">ITO, HIROSHI</p>	
	<p>Examiner</p> <p align="center">Nikita Wells</p>	<p>Art Unit</p> <p align="center">2881</p>	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 November 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03/11/ 2003 & changes to Figs. 14-16 & 30 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>072704</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by S. Wakui (6,378,672 B1).

With respect to claims 1, 3-5, 11, and 12, S. Wakui discloses (Abstract; Col. 1, lines 5-19 and 46-59; Col. 5, lines 1-3 and 61-67; Col. 12, lines 9-20; and Col. 12, line 64 to Col. 13, line 12) an apparatus for controlling motion of an object, comprising: a first actuator for moving an object; an elastic motion measuring unit for measuring elastic motion of the object, and a control unit for controlling said first actuator based on an elastic motion measured by said elastic-motion measuring unit.

With respect to claims 2 and 13, S. Wakui discloses (Col. 5, lines 29-45; and Col. 12, lines 51-59) an apparatus for controlling motion of an object, comprising: a rigid-motion measuring unit for measuring rigid motion of the object wherein said control unit controls the first actuator based on a rigid motion measured by said rigid-motion measuring unit.

With respect to claims 6 and 7, S. Wakui discloses (Col. 1, lines 46-59; Col. 1, line 63 to Col. 2, line 11; Col. 3, lines 37-42; and Col. 4, lines 22-26) an apparatus for controlling motion of an object, wherein the measuring unit or the actuator comprises a piezoelectric element.

With respect to claims 8-10 and 14-16, S. Wakui discloses (Col. 1, lines 5-25, and 46-51) an apparatus for exposing a substrate to a pattern including a stage for holding the substrate and further apparatus for controlling motion of the object.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. H. Ito (6,742,393 B2) discloses a vibration control apparatus incorporating an actuator for moving an object, an elastic motion measuring unit for measuring elastic motion of the object, and a control unit for controlling the actuator. K. Motegi (5,734,236) discloses a drive device for vibration control providing efficient driving of the vibration actuator.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nikita Wells whose telephone number is (571) 272-2484. The examiner can normally be reached on 8:30 AM - 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on (571) 272-2477. The central fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

Art Unit: 2881

system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read "Nikita Wells". The signature is fluid and cursive, with the first name "Nikita" and the last name "Wells" clearly distinguishable.

Nikita Wells, Primary Examiner,

Art Unit 2881

July 27, 2004